

# Islandora Scholar

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## Introduction

Islandora Scholar is a suite of modules designed to help Islandora function as an Institutional Repository (although some features are helpful in other use cases as well). It is unique compared to other Islandora modules in terms of the number of features it provides as well as the vast amount of submodules that it contains. It is helpful to think of Scholar as being a kind of scholarly content solution pack due to the new content models it provides (citation & thesis), but it also differs from other solution packs in that it provides new functionality that may be used with other cmodels as well.

*Sample Features*

- New citation & thesis content models
- [Sherpa/RoMEO](#) integration
- Creation of new objects from EndNote XML or RIS files exported from other systems
- Creation of new objects from Digital Object Identifiers (DOIs) and PubMed IDs (PMIDs)
- Suppression of objects from display or disable viewing/downloading of particular datastreams
- Exporting of collections of bookmarks as RIS, RTF or PDF files
- User-selectable dynamic citation styling using Citation Style Language (CSL) files
- Extra HTML metadata to assist with Google Scholar indexing

## Requirements

This module requires the following external modules/libraries:

- [Islandora](#)
- [Tuque](#)
- [Islandora Solr Search](#)

*Islandora Scholar also requires the Citeproc, CSL and Bibutils modules in order to be enabled, but these modules are included in the /modules directory of Islandora Scholar module.*

*Please note that that enabling Scholar does not automatically enable the various Scholar submodules. They must be enabled separately, and they have their own separate requirements as well.*

## Installation

See [this](#) for further information about standard installation of Drupal 7 modules.

It is necessary to install the [citeproc-php](#) library into the `sites/all/libraries` directory, such that the main `CiteProc.php` file is located at `sites/all/libraries/citeproc-php/CiteProc.php`.

Also, the included Bibutils submodule only provides PHP interface to the Bibutils tool itself. Bibutils must be installed separately on the underlying operating system. Follow [these instructions](#) for installing Bibutils.

## Scholar Core

While "Scholar Core" is not an official community term, it can be a helpful way to keep track of the numerous features Islandora Scholar offers. In this context, "core" features are those that come from the `islandora_scholar.module` file itself as opposed to coming from one of the numerous submodules which can be enabled or disabled independently of the main Islandora Scholar module.

#### Citation & Thesis Content Models

The core Islandora Scholar module provides two new content models: the `citationCModel` and the `thesisCModel`. The `citationCModel` is intended for general scholarly works, while the `thesisCModel` is for handling electronic theses and dissertations (ETDs). While the datastream structure and default display of these two `cmodels` is nearly identical, they can be tweaked separately to accommodate the different use cases one may have for theses vs. other scholarly works, such as altered displays or separate metadata forms.

*Please note that the `citationCModel` and `thesisCModel` are in the "ir" namespace, as opposed to the standard "islandora" namespace that other `cmodels` have had in the past. Due to this nonstandard namespace, Islandora instances that make use of namespace restrictions will need to enable the "ir" namespace in order for the `citation` & `thesis cmodels` to work.*

#### Sherpa/RoMEO

Scholar Core includes Sherpa/RoMEO integration. Sherpa/RoMEO is a service which keeps on file and makes searchable the copyright & self-archiving policies of various academic journals.

Configure this in the Scholar admin menu at `'admin/islandora/solution_pack_config/scholar'`. Checking "Enable RoMEO attempts" turns on the functionality. When that is checked, then when viewing a Citation Content Model object when the object has a MODS identifier of type "issn", the person viewing the object will see a tab labeled "RoMEO" which shows the journal policies pulled from Sherpa RoMEO.

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Content
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Scholar
islandora-development.org
BASIC CONFIGURATION
DOI CONFIGURATION
PDF CONFIGURATION

Home » Administration » Islandora » Solution pack configuration

### ▼ ROMEO CONFIGURATION

Various parameters used by RoMEO

☐ Enable RoMEO attempts.  
Whether or not we should even try getting information from RoMEO.

**Sherpa/RoMEO URL**  

The URL to which to make requests.

**Sherpa/RoMEO API Key**  
  
Your institution's key to access RoMEO.

**ISSN cache time**  
  
The amount of time in days for which to maintain an ISSN value obtained by scanning an object.

**RoMEO cache time**  
  
The amount of time in days for which to maintain a copy of the markup for a given ISSN.

### ▼ GOOGLE SCHOLAR SEARCH CONFIGURATION

Various parameters used by Google Scholar Search

☐ Render Google Scholar Search link  
Enable Searching in Google Scholar.

☐ Use Standard Metadata Display  
Check to use standard Islandora metadata display instead of COinS.

☐ Let users choose display CSL  
In object view let the users choose which CSL to use.

☐ Specify Document Versions  
Use your own document versions when uploading a PDF

☐ Specify Use Permissions  
Use your own use permissions when uploading a PDF

#### VIEWERS

Select a viewer

DEFAULT	LABEL	DESCRIPTION	CONFIGURATION
<input checked="" type="radio"/>	None	Don't use a viewer for this solution pack.	
<input type="radio"/>	pdf.js Reader	Mozilla pdf.js Reader.	

Preferred viewer for your solution pack. These may be provided by third-party modules.

Save configuration

There is also a place in the admin menu at 'admin/islandora/solution\_pack\_config/scholar' to provide a [Sherpa/RoMEO API key](#). No API key is needed. Instead, there's a cap of 500 requests per day if you don't have an API key, but no cap if you do. API registration is free-of-charge as of summer 2016.

Rights information from Sherpa/RoMEO is not copied into object metadata, nor into any datastream. Instead, this is a quick link to the Sherpa/RoMEO information which can be used in staff workflows.

#### PDF.js Viewer

At the bottom of Scholar's admin menu there is an option to choose what [viewer](#) you would like to use for citation and thesis objects ("Select a viewer"). By default, no viewer is selected, meaning that citation and thesis object displays will show an image of the cover page of the PDF datastream for that object. Islandora Scholar can be configured to use the [Islandora PDF.js](#) module, which leverages [Mozilla's PDF.js](#) library to enable a JavaScript-powered window in the display of citation & thesis objects that allows a user to read the object's PDF datastream in-page without needing to download it.

To use the Islandora PDF.js module, you must first install it according to the [installation instructions on the module's README page](#). Once installed, go to the Scholar admin menu and select it as your viewer. If you see "No viewers detected" under the "VIEWERS" section, this means that there is a problem with your installation of Islandora PDF.js or that you have not enabled it.

Once enabled, you will see the PDF.js viewer window on citation & thesis object displays in place of the default static cover page image. See the image below for an example of what this looks like:

# Test


View Document Manage MARCXML

Brown, B. J. (no date). Test. doi:10.3389/fnhum.2012.00275

5/2/2017 University of Southern Mississippi Libraries

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**Schedule**

**Wednesday, April 12**

1:00 p.m. Check-in

2:00 p.m. Welcome, Dr. John Eys, Dean of University Libraries

2:10 p.m. Keynote, Dr. Paul Royster, University of Nebraska-Lincoln

2:30 p.m. Panel Discussion: "The Alphabet Soup of Scholarly Communication: IRs, OA, T&P, and More"

5:00 p.m. Break

5:15 p.m. Reception / Poster Presentations

"Realities of Managing an Institutional Repository"  
Autumn Mortenson, Ouachita Baptist University

"Faculty Analysis and Outreach Plan for UNT Scholarly Works"  
Pamela Andrews, University of North Texas

"Identifying Policy Trends: Institutional Repository Policy Survey Results"  
Christy Shovey, University of Florida

6:00 p.m. Optional Dinner Meet-up

**Thursday, April 13**

8:00 a.m. Check-in / Exhibits Open

Digital Commons, Greg Seymour, bepress

DSpace

Islandora, Bryan Brown and Aaron Rettien, Florida State University

Download PDF

## Importers

Scholar provides options for importing objects from various sources.

These are configured by enabling the following modules:

- PMID Populator (imports metadata through PubMed's API)

- RIS Populator (when creating a Citation object, allows upload of a Research Information Systems (RIS) formatted citation to prepopulate metadata)
- DOI Populator (imports metadata through Crossref OpenURL)
- EndNote XML Populator (when creating a Citation object, allows upload of an EndNote XML exported citation to prepopulate metadata) (each module enables import from a different source)

When a module is enabled, and someone clicks to create an object in Islandora, Islandora will display the option to "Prepopulate metadata from source". The person can choose a source, and either upload the file or provide the identifier, and then will be shown a metadata input form prepopulated with metadata from the source.

[Home](#) » [Islandora Repository](#)

Islandora Repository

### Prepopulate metadata from source:

☒ None  
An opportunity will be provided to enter metadata.

☐ DOI Populator  
Performs a look-up of a DOI to populate metadata.

☐ EndNote XML Populator  
Populate metadata from an EndNote XML record.

☐ PMID Populator  
Performs a look-up on PubMed to populate metadata.

☐ RIS Populator  
Populate metadata from an RIS record.

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Islandora Repository

## Importer

☒ DOI Importer  
☐ EndNote XML Importer  
☐ Pubmed Importer  
☐ RIS Importer  
☐ ZIP File Importer

Here is more detailed info on each source for metadata:

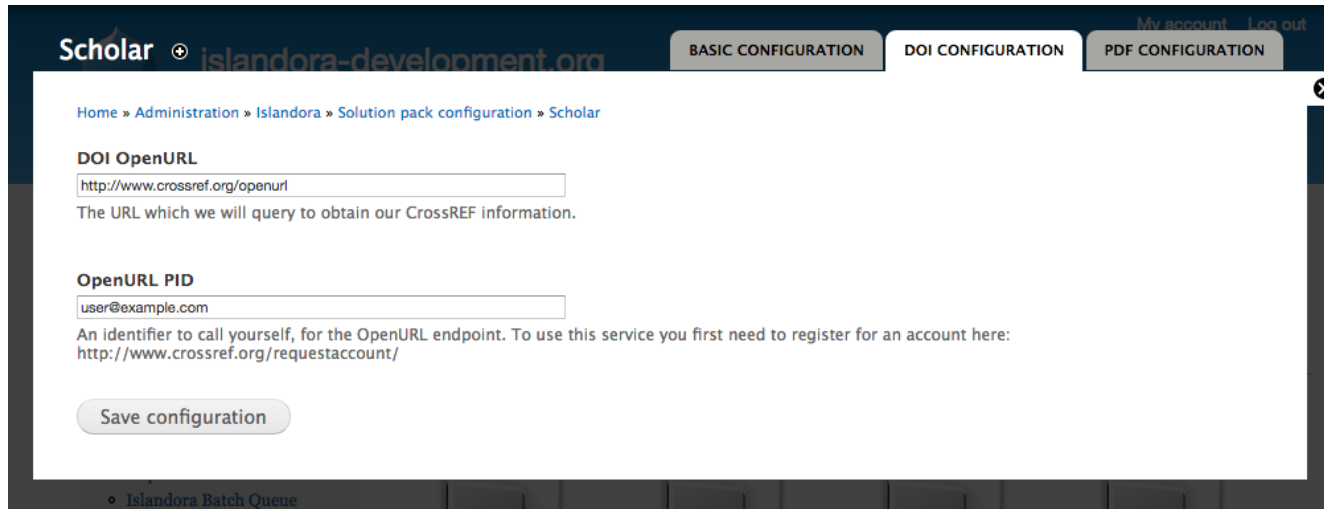
The **RIS Importer** and **EndNoteXML Importer** submodules allow users to take citation data files exported from other sources (such as RefWorks, EndNote or Zotero) and turn them into Islandora objects using the standard Islandora importer interface (similar to using the zip importer). The **DOI Importer** and **PMID Importer** submodules work in much the same way, but instead of using files exported by other citation managers they use Digital Object Identifier (DOI) or PubMed ID (PMID) strings.

DOI Populator: Registration with Crossref required.

To use this, enable the "DOI Importer" module.

You must register to use Crossref OpenURL. You register with an email address and enter the email address into Islandora in the menu at Home » Administration » Islandora » Solution pack configuration » Scholar . There is no fee to register for this service. (This is an API for inputting a DOI and retrieving metadata in XML. Islandora Scholar Core does not interface with Crossref in any capacity which would allow minting of DOIs.)

Digital Object Identifiers Configuration tab with Cross Ref configuration page.



The screenshot shows the 'Scholar' configuration page in the 'DOI CONFIGURATION' tab. The breadcrumb trail is 'Home » Administration » Islandora » Solution pack configuration » Scholar'. The page has a dark blue header with the 'Scholar' logo and 'islandora-development.org' text. On the right, there are links for 'My account' and 'Log out', and three tabs: 'BASIC CONFIGURATION', 'DOI CONFIGURATION' (active), and 'PDF CONFIGURATION'. The main content area is white and contains two input fields. The first is labeled 'DOI OpenURL' and contains the text 'http://www.crossref.org/openurl'. Below it is a note: 'The URL which we will query to obtain our CrossREF information.' The second input field is labeled 'OpenURL PID' and contains the text 'user@example.com'. Below it is a note: 'An identifier to call yourself, for the OpenURL endpoint. To use this service you first need to register for an account here: http://www.crossref.org/requestaccount/'. At the bottom of the form is a 'Save configuration' button. A footer bar at the very bottom contains a link to 'Islandora Batch Queue'.

For more information about Crossref Open URL or to register, click [here](#).

### Batch Import

#### Batch Import of DOIs:

When the DOI Importer is enabled, a new option will be available in each Collection's "Manage" tab. When you log in, browse to a Collection, and click to the "Manage" tab, then click "Batch Import Objects", you will get a drop down menu with an option to use the "DOI Importer". If you select this DOI Importer, then you can either upload a .txt file of DOIs or you can enter the DOIs into a form field.

Formatting the .txt file: The DOIs should be separated by a single space or by a tab or by a comma. No other separators will work.

The batch DOI import will only create Citation content model objects. If your collection policy is set up so that the collection can hold Citation Content Model objects, then the import will create these objects. If your collection policy is not set up to hold Citation Content Model objects, then the import will create objects, but those objects will have oddities in how they are stored in Drupal versus Fedora Commons and won't quite work right or be fixable, so don't do this.

Citation objects made by the batch DOI import are created in the ir: namespace.

## Citation Collection & Citation Style Management

The **Islandora Bibliography** submodule extends **Islandora Bookmark** to allow it to handle collections of scholarly citations, which can be dynamically restyled with the help of the **Citeproc** and **CSL** submodules. They can also be exported in RIS, RTF or PDF format with the **Exporter** submodule.

In order to access new citation styles, go to the [Zotero CSL Repository](#) and download whatever CSL files you want to use. You can then upload your CSL files using the CSL admin page at admin/islandora/tools/csl and choose a default style to display on your citation & thesis object pages.

STYLE NAME		DELETE
APA	Is Default	Delete
Test Style	Set Default	Delete
Test Style2	Set Default	Delete
Name	Upload A CSL Style No file chosen	Add

If you want your users to be able to dynamically choose any available citation style from the citation/thesis object display interface, make sure to check the "Let users choose display CSL" checkbox at the bottom of the Islandora Scholar admin page at admin/islandora/solution\_pack\_config/scholar.

# Greenways as green magnets

View

Document

Manage

MARCXML

Style

✓ APA  
Archivum Immunologiae et Therapiae Experimentalis  
The Open University (Harvard)

Coutts, C., & Miles, R. (2011). Greenways as green magnets: The relationship between the race of greenway users and race in proximal neighborhoods. *Journal Of Leisure Researc*. Retrieved from [http://purl.flvc.org/fsu/fd/FSU\\_migr\\_durp\\_faculty\\_publications-0013](http://purl.flvc.org/fsu/fd/FSU_migr_durp_faculty_publications-0013)

Florida State University Libraries

2011

Greenways as green magnets: The relationship between the race of greenway users and race in proximal neighborhoods

Christopher Coutts and Rebecca Miles

## Generating citations

The appropriate type of citation will be displayed according to the content of the <genre> field in the MODS record for each Citation or Thesis object. In the default form, the "Publication Type" entry box near the top of the form is used to enter the MODS <genre>. A case-sensitive entry is required in order to generate the correct formatting:

MODS <genre> term	Format of the citation generated by Islandora Scholar
blank/default/ any-term-not- in-a-controlled- vocab	Citation will be formatted like a journal article.
<genre>journal article</genre>	Citation will be formatted like a journal article.
<genre>book chapter</genre>	Citation will be formatted like a book chapter.
<genre>book section</genre>	Citation will be formatted like a book chapter.
<genre>book</genre>	Citation will be formatted like a book.

## Google Scholar Integration

Getting indexed by Google Scholar is a primary concern for any institutional repository due to its overwhelming popularity with researchers. A properly configured IR should be seeing most of its visitors coming from Google Scholar, but Google Scholar has [many requirements for repositories who want to](#)



be indexed. The **Islandora Google Scholar** submodule pulls relevant information from the MODS record of citation & thesis cmodels and turns it into meta tags and embeds it into the HTML of the display page which is the primary way that Google Scholar learns about your repository and its contents. See the meta tags with the "citation\_" prefix in the screenshot below:

```
<head>
<meta charset="utf-8" />
<meta name="citation_abstract_html_url" content="http://diginole.lib.fsu.edu/islandora/object/fsu%3A207165/" />
<link rel="shortcut icon" href="http://diginole.lib.fsu.edu/sites/fsu.digital.flvc.org/files/favicon.ico" type="image/vnd.microsoft.icon" />
<meta name="citation_online_date" content="2015" />
<meta name="citation_pdf_url" content="http://diginole.lib.fsu.edu/islandora/object/fsu%3A207165/datastream/PDF/view" />
<meta name="citation_publication_date" content="2016" />
<meta name="citation_author" content="Vandegrift, Micah" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<meta name="citation_title" content="Faculty Senate Library Committee - Task Force on Scholarly Communications" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<meta name="MobileOptimized" content="width" />
<meta name="HandheldFriendly" content="true" />
<meta name="apple-mobile-web-app-capable" content="yes" />
<title>Faculty Senate Library Committee - Task Force on Scholarly Communications | fsu.digital.flvc.org</title>
<style>
```

## Scholar Embargoes

The **Scholar Embargo** submodule is very similar to (and can even be used in conjunction with) the [Islandora IP Embargo](#) module. Scholar Embargo allows you to suppress the display of objects in collections entirely, or allow the objects to display but disable a specified datastream on an object. Embargoes may be indefinite (meaning that they will persist until manually lifted) or temporary (meaning that they will persist until the specified expiration date chosen by an administrator, with email notifications 10 days before and on the day of an embargo's expiration).

The two primary types of embargoes are object embargoes and datastream embargoes. Objects with an "object embargo" will behave as if they don't exist for public users; they won't display in collections or search results, and will yield an access denied page when public users attempt to access them directly by PID. Only privileged users will be able to see them (more on that below). Datastream embargoes allow the object to display normally in collections and search results, but a particular datastream (specified when the embargo is placed) will be unavailable to public users to view or download. For citation and thesis objects this will be the 'PDF' datastream, but Scholar Embargoes can be applied to any content model, extending the list of possible datastreams. In order to put a Scholar Embargo on content models other than citations and theses, you must enable them from the "Embargo Settings" tab of the Islandora Scholar Embargoes admin menu at `admin/islandora/solution_pack_config/embargo` (example below).

Select Content Models for objects to be embargoed  
Objects defined by selected Content Models will be eligible for embargoing.

PID	CONTENT MODEL
<input checked="" type="checkbox"/> ir:citationCModel	Citation Content Model
<input type="checkbox"/> islandora:collectionCModel	Islandora Collection Content Model
<input type="checkbox"/> islandora:sp-audioCModel	Islandora Audio Content Model
<input type="checkbox"/> islandora:sp-basic_image	Islandora Basic Image Content Model
<input type="checkbox"/> islandora:pageCModel	Islandora Page Content Model
<input type="checkbox"/> islandora:bookCModel	Islandora Internet Archive Book Content Model
<input type="checkbox"/> islandora:compoundCModel	Islandora Compound Object Content Model
<input type="checkbox"/> islandora:sp-large_image_cmodel	Islandora Large Image Content Model
<input type="checkbox"/> islandora:sp-web_archive	Islandora Web ARChive Content Model
<input type="checkbox"/> islandora:sp-videoCModel	Islandora Video Content Model
<input type="checkbox"/> ir:thesisCModel	Thesis Content Model
<input type="checkbox"/> islandora:sp-pdf	Islandora PDF Content Model
<input type="checkbox"/> islandora:newspaperCModel	Islandora Newspaper Content Model
<input type="checkbox"/> islandora:newspaperissueCModel	Islandora Newspaper Issue Content Model
<input type="checkbox"/> islandora:newspaperPageCModel	Islandora Newspaper Page Content Model
<input type="checkbox"/> islandora:OACCModel	Islandora Annotation CModel
<input type="checkbox"/> islandora:oralhistoriesCModel	Islandora Oral Histories Content Model

Configure Embargo
Reset to default

You may also use the "Manage Embargoed Items" tab in the Islandora Scholar Embargo admin menu to see all objects that are currently under embargo.

LABEL	PID	TYPE	EMBARGOED UNTIL	MANAGE
<a href="#">Citation - Temporary PDF Embargo</a>	fsu:6965	PDF	Apr 08, 2036	<a href="#">Manage</a>
<a href="#">Thesis - Indefinite Object Embargo</a>	fsu:7270	Object	Indefinite	<a href="#">Manage</a>
<a href="#">Thesis - Temporary PDF Embargo</a>	fsu:7273	PDF	Apr 08, 2034	<a href="#">Manage</a>
<a href="#">Thesis - Indefinite PDF Embargo</a>	fsu:7274	PDF	Indefinite	<a href="#">Manage</a>
<a href="#">Thesis - Temporary Object Embargo</a>	fsu:7278	Object	Apr 08, 2036	<a href="#">Manage</a>
<a href="#">Citation - Temporary Object Embargo</a>	fsu:7969	Object	Apr 08, 2036	<a href="#">Manage</a>
<a href="#">Citation - Indefinite Object Embargo</a>	fsu:7982	Object	Indefinite	<a href="#">Manage</a>
<a href="#">Citation - Indefinite PDF Embargo</a>	fsu:8006	PDF	Indefinite	<a href="#">Manage</a>


It is worth noting that the current best practice in the world of institutional repositories (citation needed) seems to be exposing the object display and metadata, but blocking the viewing or downloading of the full text record (typically a PDF file). This is so users can know what information is in the system through collection displays or search results, even if the system blocks them from fully accessing it. Many faculty and students like to check to make sure their records are in the repository and still embargoed, and when they can't find their record they may misunderstand and think it hasn't been loaded.

#### Issues with Object Embargoes

In order to place embargoes on objects, you must grant the "Manage embargo on any objects" permission to the appropriate user roles under the Islandora Scholar Embargo section of admin/people/permissions. This will allow a user to place object and datastream embargoes on objects, as well as remove or update datastream embargoes. Due to issues with the connection between Drupal permissions and the way Scholar Embargo implements its embargo policies through XACML, **currently only the object's owner will be able to remove or update object embargoes**. This is because the XACML policy works independently of Drupal permissions, and the embargo XACML policy will block everyone except the object's owner from managing the object at all once embargoed regardless of what Drupal permissions they have. A [fix for this is in the works](#) and should be part of the Islandora 7.x-1.8 release.

## PDF Configuration

Text extraction relies on the text stream being embedded into the pdf. This isn't going to generate OCR for the book if it wasn't already done. Consider converting text-filled images with no text streams to TIFFs and using the Book Solution Pack with OCR enabled.

Scholar  islandora-development.org

BASIC CONFIGURATION

DOI CONFIGURATION

PDF CONFIGURATION

My account | Log out

Home » Administration » Islandora » Solution pack configuration » Scholar

TEXT

☒ Extract text streams from PDFs using pdftotext

The extracted text stream is added as FULL\_TEXT datastreams and are indexed into Solr. Uploading a text file takes priority over text stream extraction.  
**Note:** PDFs that contain visible text do not necessarily contain text streams (e.g. images scanned and saved as PDFs). Consider converting text-filled images with no text streams to TIFFs and using the [Book Solution Pack](#) with **OCR** enabled.

Path to pdftotext executable

☒ pdftotext executable found at /usr/bin/pdftotext

THUMBNAIL

Settings for creating PDF thumbnail derivatives

Width

The width of the thumbnail in pixels.

Height

The height of the thumbnail in pixels.

PREVIEW IMAGE

Settings for creating PDF preview image derivatives

Max width

The maximum width of the preview in pixels.

Max height

The maximum height of the preview in pixels.

Density used to generate preview

The imagemagick density value used to generate the preview. Generally, higher numbers are better but require more computation time.

Save configuration

## Complimentary solution packs and utility modules

The Islandora code base includes a number of solution packs and utility modules that help to enhance the functionality of Islandora Scholar as a feature-rich institutional repository:

- [Entities Solution Pack](#)
- [Altmetric Utility Module](#)
- [Usage Stats Utility Module](#)